

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/017,743C

DATE: 06/23/2000
TIME: 06:19:36

Input Set : A:\018623-805.app
Output Set: N:\CRF3\06222000\I017743C.raw

SEQUENCE LISTING

C--> 5 (1) GENERAL INFORMATION:

- 7 (i) APPLICANT: Sette, Alessandro
- 8 Sidney, John
- 9 Southwood, Scott
- C--> 11 (ii) TITLE OF INVENTION: HLA Binding Peptides and Their
- 12 Uses
- 14 (iii) NUMBER OF SEQUENCES: 146
- 16 (iv) CORRESPONDENCE ADDRESS:
 - 17 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 - 18 (B) STREET: Two Embarcadero Center, Eighth Floor
 - 19 (C) CITY: San Francisco
 - 20 (D) STATE: CA
 - 21 (E) COUNTRY: USA
 - 22 (F) ZIP: 94111-3834
- 24 (v) COMPUTER READABLE FORM:
 - 25 (A) MEDIUM TYPE: Diskette
 - 26 (B) COMPUTER: IBM Compatible
 - 27 (C) OPERATING SYSTEM: DOS
 - 28 (D) SOFTWARE: FastSEQ for Windows Version 2.0

C--> 30 (vi) CURRENT APPLICATION DATA:

- C--> 31 (A) APPLICATION NUMBER: US/09/017,743C
- C--> 32 (B) FILING DATE: 03-Feb-1998
- 33 (C) CLASSIFICATION:
- 35 (vii) PRIOR APPLICATION DATA:
 - 36 (A) APPLICATION NUMBER: US 08/590,298
 - 37 (B) FILING DATE: 23-JAN-1996
- 39 (viii) ATTORNEY/AGENT INFORMATION:
 - 40 (A) NAME: Parent, Annette S.
 - 41 (B) REGISTRATION NUMBER: 42,058
 - 42 (C) REFERENCE/DOCKET NUMBER: 018623-008050US
- 44 (ix) TELECOMMUNICATION INFORMATION:
 - 45 (A) TELEPHONE: 415-576-0200
 - 46 (B) TELEFAX: 415-576-0300
 - 47 (C) TELEX:

50 (2) INFORMATION FOR SEQ ID NO: 1:

- 52 (i) SEQUENCE CHARACTERISTICS:
 - 53 (A) LENGTH: 8 amino acids
 - 54 (B) TYPE: amino acid
 - 55 (C) STRANDEDNESS: single
 - 56 (D) TOPOLOGY: linear
- 58 (ii) MOLECULE TYPE: peptide
- 60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
- 62 Val Pro Leu Gln Leu Pro Pro Leu
- 63 1 5
- 65 (2) INFORMATION FOR SEQ ID NO: 2:
- 67 (i) SEQUENCE CHARACTERISTICS:

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JUL 12 2000

TECH CENTER 1600/2900

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68 (A) LENGTH: 8 amino acids
69 (B) TYPE: amino acid
70 (C) STRANDEDNESS: single
71 (D) TOPOLOGY: linear
73 (iii) MOLECULE TYPE: peptide
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
77 Ala Pro Thr Leu Trp Ala Arg Met
78 1 5
80 (2) INFORMATION FOR SEQ ID NO: 3:
82 (i) SEQUENCE CHARACTERISTICS:
83 (A) LENGTH: 8 amino acids
84 (B) TYPE: amino acid
85 (C) STRANDEDNESS: single
86 (D) TOPOLOGY: linear
88 (ii) MOLECULE TYPE: peptide
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
92 Ile Pro Phe Tyr Gly Lys Ala Ile
93 1 5
95 (2) INFORMATION FOR SEQ ID NO: 4:
97 (i) SEQUENCE CHARACTERISTICS:
98 (A) LENGTH: 8 amino acids
99 (B) TYPE: amino acid
100 (C) STRANDEDNESS: single
101 (D) TOPOLOGY: linear
103 (ii) MOLECULE TYPE: peptide
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107 Ile Pro Leu Val Gly Ala Pro Leu
108 1 5
110 (2) INFORMATION FOR SEQ ID NO: 5:
112 (i) SEQUENCE CHARACTERISTICS:
113 (A) LENGTH: 8 amino acids
114 (B) TYPE: amino acid
115 (C) STRANDEDNESS: single
116 (D) TOPOLOGY: linear
118 (ii) MOLECULE TYPE: peptide
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
122 Lys Pro Ala Arg Leu Ile Val Phe
123 1 5
125 (2) INFORMATION FOR SEQ ID NO: 6:
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 8 amino acids
129 (B) TYPE: amino acid
130 (C) STRANDEDNESS: single
131 (D) TOPOLOGY: linear
133 (ii) MOLECULE TYPE: peptide
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
137 Leu Pro Gly Cys Ser Phe Ser Ile
138 1 5
140 (2) INFORMATION FOR SEQ ID NO: 7:

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142 (i) SEQUENCE CHARACTERISTICS:
143 (A) LENGTH: 8 amino acids
144 (B) TYPE: amino acid
145 (C) STRANDEDNESS: single
146 (D) TOPOLOGY: linear
148 (ii) MOLECULE TYPE: peptide
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
152 Leu Pro Arg Arg Gly Pro Arg Leu
153 1 5
155 (2) INFORMATION FOR SEQ ID NO: 8:
157 (i) SEQUENCE CHARACTERISTICS:
158 (A) LENGTH: 8 amino acids
159 (B) TYPE: amino acid
160 (C) STRANDEDNESS: single
161 (D) TOPOLOGY: linear
163 (ii) MOLECULE TYPE: peptide
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
167 Leu Pro Tyr Ile Glu Gln Gly Met
168 1 5
170 (2) INFORMATION FOR SEQ ID NO: 9:
172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 9 amino acids
174 (B) TYPE: amino acid
175 (C) STRANDEDNESS: single
176 (D) TOPOLOGY: linear
178 (ii) MOLECULE TYPE: peptide
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
182 Cys Pro Lys Val Ser Phe Glu Pro Ile
183 1 5
185 (2) INFORMATION FOR SEQ ID NO: 10:
187 (i) SEQUENCE CHARACTERISTICS:
188 (A) LENGTH: 9 amino acids
189 (B) TYPE: amino acid
190 (C) STRANDEDNESS: single
191 (D) TOPOLOGY: linear
193 (ii) MOLECULE TYPE: peptide
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
197 Ile Pro Ile His Tyr Cys Ala Pro Ala
198 1 5
200 (2) INFORMATION FOR SEQ ID NO: 11:
202 (i) SEQUENCE CHARACTERISTICS:
203 (A) LENGTH: 9 amino acids
204 (B) TYPE: amino acid
205 (C) STRANDEDNESS: single
206 (D) TOPOLOGY: linear
208 (ii) MOLECULE TYPE: peptide
210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
212 His Pro Val His Ala Gly Pro Ile Ala
213 1 5

Input Set : A:\018623-805.app
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215 (2) INFORMATION FOR SEQ ID NO: 12:
217 (i) SEQUENCE CHARACTERISTICS:
218 (A) LENGTH: 10 amino acids
219 (B) TYPE: amino acid
220 (C) STRANDEDNESS: single
221 (D) TOPOLOGY: linear
223 (iii) MOLECULE TYPE: peptide
225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
227 His Pro Arg Ile Ser Ser Glu Val His Ile
228 1 5 10
230 (2) INFORMATION FOR SEQ ID NO: 13:
232 (i) SEQUENCE CHARACTERISTICS:
233 (A) LENGTH: 10 amino acids
234 (B) TYPE: amino acid
235 (C) STRANDEDNESS: single
236 (D) TOPOLOGY: linear
238 (iii) MOLECULE TYPE: peptide
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
242 Leu Pro Ile Asn Ala Leu Ser Asn Ser Leu
243 1 5 10
245 (2) INFORMATION FOR SEQ ID NO: 14:
247 (i) SEQUENCE CHARACTERISTICS:
248 (A) LENGTH: 11 amino acids
249 (B) TYPE: amino acid
250 (C) STRANDEDNESS: single
251 (D) TOPOLOGY: linear
253 (iii) MOLECULE TYPE: peptide
255 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
257 Ile Pro Tyr Asn Pro Gln Ser Gln Gly Val Val
258 1 5 10
260 (2) INFORMATION FOR SEQ ID NO: 15:
262 (i) SEQUENCE CHARACTERISTICS:
263 (A) LENGTH: 11 amino acids
264 (B) TYPE: amino acid
265 (C) STRANDEDNESS: single
266 (D) TOPOLOGY: linear
268 (iii) MOLECULE TYPE: peptide
270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
272 Ala Pro Thr Leu Trp Ala Arg Met Ile Leu Met
273 1 5 10
275 (2) INFORMATION FOR SEQ ID NO: 16:
277 (i) SEQUENCE CHARACTERISTICS:
278 (A) LENGTH: 9 amino acids
279 (B) TYPE: amino acid
280 (C) STRANDEDNESS: single
281 (D) TOPOLOGY: linear
283 (iii) MOLECULE TYPE: peptide
285 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
287 Met Pro Ser Leu Thr Leu Ala Cys Leu

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288 1 5
290 (2) INFORMATION FOR SEQ ID NO: 17:
292 (i) SEQUENCE CHARACTERISTICS:
293 (A) LENGTH: 9 amino acids
294 (B) TYPE: amino acid
295 (C) STRANDEDNESS: single
296 (D) TOPOLOGY: linear
298 (iii) MOLECULE TYPE: peptide
300 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
302 Val Pro His Val Ile Glu Glu Val Met
303 1 5
305 (2) INFORMATION FOR SEQ ID NO: 18:
307 (i) SEQUENCE CHARACTERISTICS:
308 (A) LENGTH: 10 amino acids
309 (B) TYPE: amino acid
310 (C) STRANDEDNESS: single
311 (D) TOPOLOGY: linear
313 (iii) MOLECULE TYPE: peptide
315 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
317 Trp Pro Tyr Ile Ala Ser Arg Thr Ser Ile
318 1 5 10
320 (2) INFORMATION FOR SEQ ID NO: 19:
322 (i) SEQUENCE CHARACTERISTICS:
323 (A) LENGTH: 9 amino acids
324 (B) TYPE: amino acid
325 (C) STRANDEDNESS: single
326 (D) TOPOLOGY: linear
328 (iii) MOLECULE TYPE: peptide
330 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
332 Phe Pro Val Thr Pro Gln Val Pro Leu
333 1 5
335 (2) INFORMATION FOR SEQ ID NO: 20:
337 (i) SEQUENCE CHARACTERISTICS:
338 (A) LENGTH: 9 amino acids
339 (B) TYPE: amino acid
340 (C) STRANDEDNESS: single
341 (D) TOPOLOGY: linear
343 (iii) MOLECULE TYPE: peptide
345 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
347 Phe Pro Val Arg Pro Gln Phe Pro Leu
348 1 5
350 (2) INFORMATION FOR SEQ ID NO: 21:
352 (i) SEQUENCE CHARACTERISTICS:
353 (A) LENGTH: 9 amino acids
354 (B) TYPE: amino acid
355 (C) STRANDEDNESS: single
356 (D) TOPOLOGY: linear
358 (iii) MOLECULE TYPE: peptide
360 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/017,743C

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Input Set : A:\018623-805.app
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L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:11 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(vi) CURRENT APPLICATION DATA:]
L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:1974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129
L:2016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:2056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132
L:2076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:2106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135
L:2121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136
L:2136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138
L:2173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139
L:2196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140
L:2265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141
L:2334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142
L:2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:2616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146